

Science, Technology, and Society (Nature of Science Unifying Concept B)

Technology defines a society or era. It can shape the environment in which people live, and it has increasingly become a larger part of people's lives. While many of technology's effects on society are regarded as desirable, other effects are seen as less desirable. These concepts are shared across subject areas such as science, math, technology, social studies and language arts. The development and use of technology affects society and the environment in which we live, and, at the same time, society influences the development of technology and its impact on culture.

By the end of the grade band:		By the end of the grade band, students know and are able to do everything required in earlier grades and:		By the end of grade band, students know and are able to do everything required in earlier grades and:		By the end of grade band, students know and are able to do everything required in earlier grades and:		
Grades K - 2		Grades 3 - 5		Grades 6 - 8		Grades 9 - 12		
N.2.B	Students understand that many people contribute to the field of science.	N.5.B	Students understand that many people, from all cultures and levels of ability, contribute to the fields of science and technology.	N.8.B	Students understand the interactions of science and society in an ever-changing world.	N.12.B	Students understand the impacts of science and technology in terms of costs and benefits to society.	
N.2.B.1	Students know science engages men and women of all ages and backgrounds. E/S	N.5.B.1	Students know that, throughout history, people of diverse cultures have provided scientific knowledge and technologies. E/S	N.8.B.1	Students understand that consequences of technologies can cause resource depletion and environmental degradation, but technology can also increase resource availability, mitigate environmental degradation, and make new resources economical.	N.12.B.1	Students know science, technology, and society influenced one another in both positive and negative ways. E/S	Risks and Benefits
		N.5.B.2	Students know technologies impact society, both positively and negatively. E/S			N.12.B.2	Students know consumption patterns, conservation efforts, and cultural or social practices in countries have varying environmental impacts . E/S	Ethical Behavior
N.2.B.2	Students know that, in science, it is helpful to work in a team and share findings with others. E/L	N.5.B.3	Students know the benefits of working with a team and sharing findings. E/L	N.8.B.2	Students know scientific knowledge is revised through a process of incorporating new evidence gained through on-going investigation and collaborative discussion. E/S	N.12.B.3	Students know the influence of ethics on scientific enterprise. E/S	
						N.12.B.4	Students know scientific knowledge builds on previous information. E/S	